Original/Duplicate/ Triplicate

**Contract Certificate**

(For Other Works)

**No : 1st & Final Bill** Sub-Division Date : ..... **AEE, YSTSD**

Division:E.E.Yelahanka **SBR No:** 8133/2021

Bill Received No.....Dated .....Cash Book Voucher No. ..... **Date:** 8/1/2021

Scheduled Doctet No..... Head of Account:

**Name of Work :-Improvements to roads & drains at Judicial Layout,Someshwaranagara,Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package - 05)**

P-2415

**MSV Constructions Company**

YNK-DBR No. 191
Date. 30.01.2021

Reference to Agreement No. BBMP/EE/ YNK.D/EPMT/AG/110/2020-21

Work Ordper No:BBMP/EE/ YNK.D/EPMT-5/ WO/127/2020-21 Dated :21.09.2020

Certified that the measurements were taken by me on ..5.01.2021.....and of measurements Book No .....4959.....and that the work is satisfactorily executed.

page no :- 495302 to 819

Contractor

Officer – in – charge of work

Certified that the measurements were checked by me on ....05.01.2021.....and

Certified that the quantities of materials shown in column 3 of Accountant II have been actually bought to the site of the work and contactor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor in recorded in the office.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪವಿಭಾಗ

***If Memorandum of Payment*** **WORK CODE : 004-19-000015** **Sub-Division**

| | | Amount |
|---|---|---|
| 1. | Total Value of work done or supplies ma -- | Rs 31188449-00 |
| 2. | Deduct amount to be held in reserve bei -- | — |
| 3. | -do- Balance -- | 311885-00 |
| 4. | Deduct Payments: | 311885-00 |
| | a) Amount of previous payment as in the Office Cash Book Voucher No. .....Dated.....S.D. No. ..... | 935654-00 |
| | Amount adjusted towards cash advance recovery of b) Payments cost store or other materials supplied. | 311885-00 |
| 5. | Balance being unpaid value of work done held in reserve | 31189-00 |
| 6. | Deduct cash advance made on the office Cash Book Voucher No. ..... dated.....less adjustments | 375271/- |
| 7. | Net amount due to or from contractor | 22777769-00 |
| | Unadjusted items | 28910680-00 |
| 8. | Advance to contractor for materials brought to site (as detailed) within value of Government materials supplied. | |

Contractor Signature

Received Rs. ..... (in words)

.....

.....by cash and by adjustment of

Payment as per memorandum (For use in the office)

(In final settlement of all demand)

Witness:

1.

2.

Stamp

Signature of the Contractor

Date

Audited & Admitted for Rs. 31188449-00

—

—

28910680-00 by Cheque

and Rs. 22777769-00 adjustment

Asst. Engr. Yelahanka Sub Division BBMP

Exe. Engineer Yelahanka Sub Division BBMP

Paid by me by Cheque No. ..... Dated.....

Cash Rs. ..... Dated.....

Initials of office making payment dated..... **Executive Engineer**

**Name of Work :Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05)**

| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Up-to-date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost Cost | Qty | Rate Rs. Ps. | Cost | Qty | Cost | |
| 1 | Removing and refixing stone slabs of drains and pointing in CM (1:3)(Pg no 27/5.33) | Sqm | – | – | 3352.86 | 116.85 | 391781.69 | 3352.86 | 391781.69 | |
| 2 | KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 142/ Item No. 19.1/ PWD SR 2018-19 | Cum | – | – | 2970.85<br>2873.65 | 244.84 | 727382.91<br>703584 | 2970.85 | 727382.91 | |
| 3 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. KBS 4.1,4.2 (Page No.13, I.No.4.2 of KPWD SR 2018-19 ) | Cum | – | – | 411.35 | 5780.37 | 2377755.20 | 411.35 | 2377755.20 | |
| 4 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cill, fillet etc. including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (Page 14/4.11) 2018-19 | Cum | – | – | 396.50 | 6297.87 | 2497105.46 | 396.50 | 2497105.46 | |
| 5 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page 16/4.31) of KPWD S.R 2018-19 | Sqm | – | – | 3506.40 | 398.42 | 1397019.89 | 3506.40 | 1397019.89 | |
| 6 | KSRB 4.9.2 : Providing T.M.T Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design ( laps, hooks and wastage shall not be measured & paid ) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3( P-18/4.46.2) | Tonne | – | – | 20.13 | 78977.64 | 1589819.89 | 20.13 | 1589819.89 | |

| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Up to date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost Cost | Qty | Rate Rs. Ps. | Cost | Qty | Cost | |
| 7 | Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.( 1.20 x 0.60 x 0.10)Data rate | Sqm | – | – | 2490.02 | 2199.54 | 5476898.59 | 2490.02 | 5476898.59 | |
| 24 | Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.( 1.2 x 0.60 x 0.10)Data rate | M | – | – | 95.62 | 5688.36 | 543920.98 | 95.62 | 543920.98 | |
| 8 | Removing and resetting of kerb stones. Page No. 270/ Item No.37.57/ PWD SR 2018-19 | M | – | – | 2262.75 | 110.18 | 249309.80 | 2262.75 | 249309.80 | |
| 9 | Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19 | Nos | – | – | 1716.11 | 490.79 | 842249.63 | 1716.11 | 842249.63 | |
| 10 | KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19 | Sqm | – | – | 384.50 | 89.03 | 34232.04 | 384.50 | 34232.04 | |
| 11 | Removing and resetting of footpath slab Page No. 270/ Item No.37.56/ PWD SR 2018-19 | Sqm | – | – | 1701.00 | 219.24 | 372927.24 | 1701.00 | 372927.24 | |
| 12 | KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness ) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. (P.No. 103, I No. 14.6 of CSR 2018-19) | Sqm | – | – | 1053.00 | 1171.88 | 1233989.64 | 1053.00 | 1233989.64 | |
| 13 | KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19 | Cum | – | – | 1042.38 | 145.79 | 151968.58 | 1042.38 | 151968.58 | |
| 14 | KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications.A. Plant Mix Method.For Grading II Material (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19 | Cum | – | – | 399.69 | 2094.47 | 837138.71 | 399.69 | 837138.71 | |

| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Up-to-date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost | Qty | Rate Rs. Ps. | Cost | Qty | Cost | |
| 15 | KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19 | Cum | – | – | 681.70 | 2101.14 | 1432347.14 | 681.70 | 1432347.14 | |
| 16 | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 161/ Item No. 21.6/ PWD SR 2018-19 | Sqm | – | – | 3565.80 | 37.84 | 134929.87 | 3565.80 | 134929.87 | |
| 17 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per | Cum | – | – | 137.80 | 7494.23 | 1032704.89 | 137.80 | 1032704.89 | |
| 18 | KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.Page No. 158/ Item No. 21.2/ PWD SR 2018-19 | Sqm | – | – | 12361.70 | 5.56 | 68731.05 | 12361.70 | 68731.05 | |
| 19 | KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158/ Item No 21.7/ PWD SR 2018-19 | Sqm | – | – | 12361.70 | 15.58 | 192595.29 | 12361.70 | 192595.29 | |
| 20 | KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. Page No. 162/ Item No. 21.23.4/ PWD SR 2018-19 | Cum | – | – | 495.08 | 8656.09 | 4285457.04 | 495.08 | 4285457.04 | |

| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Up to date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost Cost | Qty | Rate Rs. Ps. | Cost | Qty | Cost | |
| 21 | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 | Sqm | – | – | 591.60 | 477.43 | 282447.59 | 591.60 | 282447.59 | |
| 22 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness). including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cill, fillet etc. including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 (Page 14/4.11) 2018-19 | Cum | – | – | 48.60 | 5780.37 | 280925.98 | 48.60 | 280925.98 | |
| 23 | KSRB 0.5-1 : Providing cement mortar ( cement : sand) including cost of all materials, labour charges, HOM of complete as per specifications KSRB 0.5-1.1 do - cement mortar of mix 1:1 KBS. (P.No. 02, I.No. 1.1 of CSR 2018-19) | Cum | – | – | 48.60 | 8829.70 | 429123.42 | 48.60 | 429123.42 | |
| 25 | KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19 | Cum | – | – | 135.00 | 159.23 | 21496.05 | 135.00 | 21496.05 | |

| Sl. No | Description of Item | Unit | Previous Measurement | | Present Measurement | | | Total Up-to-date | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Qty | Cost | Qty | Rate Rs. Ps. | Cost | Qty | Cost | |
| 26 | KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete aKSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs. with 25mm and down sizegraded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601. (P.No.174, I.No. 22.1 of PWD SR 2018-19)s per specifications. MORTH / Chapter 5 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.Page No. 158/ Item No. 21.2/ PWD SR 2018-19 | Cum | – | – | 67.50 | 3989.72 | 269306.10 | 67.50 | 269306.10 | |
| 27 | KSRRB M600-2. Cement Concrete Pavement :- Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplastisizer at 3lts conforming to IS 9103- 1999 reaffirmed 2008, (Coarse and fine aggregate conforming to IS.383) mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. MORTH Specification No. 602 - with M30 @ 360 Kg/cum Cement, C.A, 0.69 cum F.A. 0.46 cum (P.No.175, I.No. 22.2.2 of PWD SR 2018-19) | Cum | – | – | 67.50 | 6140.95 | 414514.13 | 67.50 | 414514.13 | |
| 28 | Vaccum de-watering with vaccum pump and suction mat and . compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No.176, I.No. 22.7 of PWD SR 2018-19) | Sqm | – | – | 348.00 | 75.68 | 26336.64 | 348.00 | 26336.64 | |
| 29 | KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3 | Sqm | – | – | 126.00 | 93.80 | 11818.80 | 126.00 | 11818.80 | |

| Description of Item | Unit | Previous Measurement Qty | Previous Measurement Cost | Present Measurement Qty | Present Measurement Rate Rs. Ps. | Present Measurement Cost | Total Up-to-date Qty | Total Up-to-date Cost | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat & including lead, lift and cost of all materials, labour, HOM complete as per specifications. | Cum | – | – | 40.50 | 6528.24 | 264393.72 | 40.50 | 264393.72 | |
| **Total** | | | | | | **27870627.95** | | **27870627.95** | |
| **GST 12%** | | | | | | **3344475.35** | | **3344475.35** | |
| **Grand Total** | | | | | | **31215103.30** | | **31215103.30** | |

Certified that work done satisfactory
Certified that there are no dues from contractors towards this work.
Certified that Contractor removed all debries from site.

NEWZEN CONSULTANT * Bangalore *

Assistant Engineer

27846829=00
3341620=00
31188449=00

27846829
3341620-

Assistant Executive Engineer

For M.S.V. CONSTRUCTIONS COMPANY

Partners